

Amendments to the Claims

1. (Currently Amended) An aqueous pigment formulation comprising
 - (A) at least one organic ~~and/or pigment~~, inorganic pigment, or a mixture thereof
 - (B) at least one polyethylene glycol alkyl ether functionalized with a terminal acid group,
 - (C) at least one alkoxyated styrene-phenol condensate,
 - (D) at least one polyethylene glycol ether having an average molar mass between 200 and 1000 g/mol,
 - (E) at least one alkyndiol,
 - (F) fats and oils of vegetable ~~and/or or~~ animal origin, ~~and/or~~ saturated and unsaturated higher fatty acids of the fats and oils of vegetable or animal origin, such fats and oils and/or salts of such the saturated and unsaturated higher fatty acids or a mixture thereof,
 - (G) ~~if appropriate~~ optionally, an aqueous acrylate resin solution,
 - (H) ~~if appropriate~~ optionally, a polymeric condensation product of aromatic sulfonic acids and formaldehyde, ~~and/or of the salts of aromatic sulfonic acids and formaldehyde~~ or a mixture thereof,
 - (I) ~~if appropriate~~ optionally, a sulfosuccinic monoester of a castor oil alkoxyate,
 - (J) ~~if appropriate~~ optionally, a hydrotropic substance,
 - ~~(K) if appropriate further add materials customary for aqueous pigment formulations, and~~
 - (L) water.

2. (Currently Amended) The pigment formulation according to claim 1 comprising essentially
 - (A) 5% to 80% by weight of the at least one organic ~~and/or pigment~~, inorganic pigment or mixture thereof,
 - (B) 0.1% to 30% by weight of the at least one polyethylene glycol alkyl ether functionalized with a terminal acid group,

- (C) 0.1% to 30% by weight of the at least one alkoxyated styrene-phenol condensate,
 - (D) 0.5% to 50% by weight of the at least one polyethylene glycol ether having an average molar mass between 200 and 1000 g/mol,
 - (E) 0.1% to 5% by weight of the at least one alkyenediol,
 - (F) 0.1% to 10% by weight of ~~fats and oils of vegetable and/or animal origin and/or saturated and unsaturated higher fatty acids of such fats and oils and/or salts of such saturated and unsaturated higher fatty acids~~ the fats and oils of vegetable or animal origin, saturated and unsaturated higher fatty acids of the fats and oils of vegetable or animal origin, salts of the saturated and unsaturated higher fatty acids or a mixture thereof,
 - (G) 0% to 30% by weight of ~~a~~ the aqueous acrylate resin solution,
 - (H) 0% to 10% by weight of ~~a~~ the polymeric condensation product of aromatic sulfonic acids and formaldehyde, ~~and/or of the salts of aromatic sulfonic acids and formaldehyde~~ or a mixture thereof,
 - (I) 0% to 10% by weight of ~~a~~ the sulfosuccinic monoester of a castor oil alkoxyate,
 - (J) 0% to 30% by weight of ~~a~~ the hydrotropic substance,
 - ~~(K) 0% to 10% by weight of further add materials customary for aqueous pigment formulations, and~~
 - (L) 5% to 90% by weight of the water,
- all based on the total weight of the pigment formulation.

3. (Currently Amended) The pigment formulation according to claim 1 ~~or 2~~ comprising essentially

- (A) 20% to 70% by weight of the at least one organic ~~and/or pigment~~, inorganic pigment or mixture thereof,
- (B) 1% to 15% by weight of the at least one polyethylene glycol alkyl ether functionalized with a terminal acid group,
- (C) 1% to 15% by weight of the at least one alkoxyated styrene-phenol condensate,

(D) 1% to 20% by weight of the at least one polyethylene glycol ether having an average molar mass between 200 and 1000 g/mol,

(E) 0.1% to 2% by weight of the at least one alkyne diol,

(F) 0.1% to 5% by weight of the fats and oils of vegetable or animal origin, saturated and unsaturated higher fatty acids of the fats and oils of vegetable or animal origin, salts of the saturated and unsaturated higher fatty acids or a mixture thereof ~~fats and oils of vegetable and/or animal origin and/or saturated and unsaturated higher fatty acids of such fats and oils and/or salts of such saturated and unsaturated higher fatty acids,~~

(G) 0% to 25% by weight of an ~~the~~ aqueous acrylate resin solution,

(H) 0% to 5% by weight of a ~~the~~ polymeric condensation product of aromatic sulfonic acids and formaldehyde, ~~and/or of the salts of aromatic sulfonic acids and formaldehyde~~ or a mixture thereof,

(I) 0% to 8% by weight of a ~~the~~ sulfosuccinic monoester of a castor oil ethoxylate,

(J) 0% to 20% by weight of a ~~the~~ hydrotropic substance,

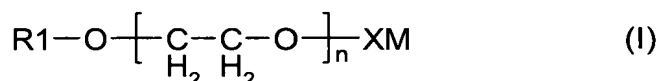
~~(K) 0% to 5% by weight of further add materials customary for aqueous pigment formulations, and~~

(L) 10% to 70% by weight of the water,
all based on the total weight of the pigment formulation.

4. (Currently Amended) The pigment formulation according to ~~one or more of claims 1 to 3~~ claim 1, wherein said ~~organic pigment component~~ (A) is at least one pigment selected from the group consisting of the monoazo, disazo, laked azo, β -naphthol, Naphthol AS, benzimidazolone, disazo condensation, azo metal complex, phthalocyanine, quinacridone, perylene, perinone, thioindigo, anthanthrone, anthraquinone, flavanthrone, indanthrone, isoviolanthrone, pyranthrone, dioxazine, quinophthalone, isoindoline, isoindolinone or diketopyrrolopyrrole pigments, ~~or an acidic to alkaline carbon black~~ selected from the group consisting of the furnace blacks ~~or and~~ lamp blacks, ~~or a combination and a mixture thereof.~~

5. (Currently Amended) The pigment formulation according to ~~one or more of claims 1 to 4~~ claim 1, wherein ~~the component A) is an organic pigment is combined~~ with carbon black or titanium dioxide.

6. (Currently Amended) The pigment formulation according to ~~one or more of claims 1 to 5~~ claim 1, wherein ~~said the~~ polyethylene glycol alkyl ether (B) functionalized with a terminal acid group ~~corresponds to~~ is a compound of the formula (I):



where

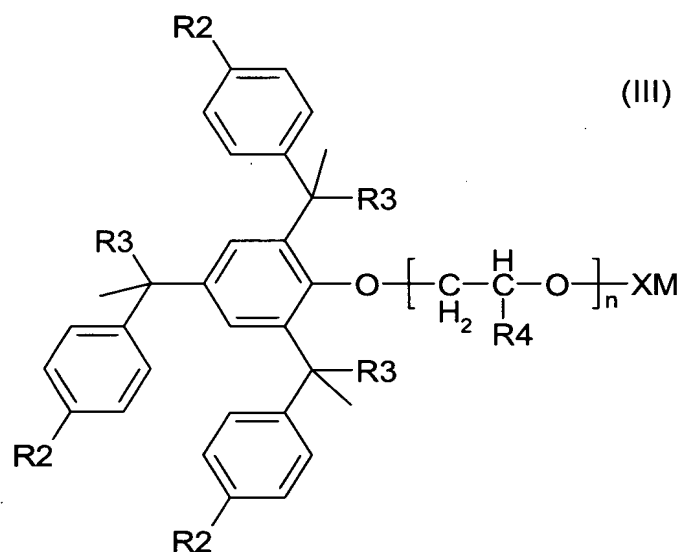
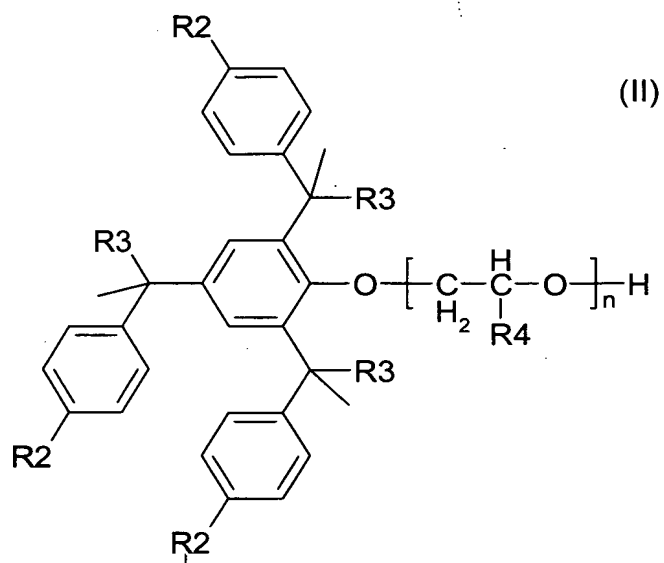
R^1 is a substituted or unsubstituted, branched or unbranched C_1 - C_{20} -alkyl or C_3 - C_{20} -cycloalkyl radical or a substituted or unsubstituted, branched or unbranched C_2 - C_{20} -alkenyl or C_3 - C_{20} -cycloalkenyl radical, the substituents being 1, 2, 3 or 4 radicals ~~in selected from the~~ group consisting of halogen, aryl, aryl(C_1 - C_{20})alkyl, C_5 - C_6 -cycloalkyl, hetaryl, hetaryl(C_1 - C_{20})alkyl and C_1 - C_{20} -alkoxy,

n is a number from 1 to 100,

X is SO_3^- , SO_2^- , CH_2COO^- , PO_3^{2-} or PO_3M^- , and

M is H, a monovalent metal cation, a divalent metal cation, NH_4^+ , a secondary, tertiary or quaternary ammonium ion, or a combination thereof.

7. (Currently Amended) The pigment formulation according to ~~one or more of claims 1 to 6~~ claim 1, wherein ~~said the~~ alkoxyated styrene-phenol condensate (C) ~~corresponds to~~ is a compound of the formula (II) or (III) or a mixture thereof:



where

R^2 is H, a branched or unbranched C_1 - C_{20} -alkyl or C_3 - C_{20} -cycloalkyl radical, or a branched or unbranched C_2 - C_{20} -alkenyl or C_3 - C_{20} -cycloalkenyl radical;

R³ and R⁴ are independently H, a branched or unbranched C₁-C₂₀-alkyl or C₃-C₂₀-cycloalkyl radical, or a branched or unbranched C₂-C₂₀-alkenyl or C₃-C₂₀-cycloalkenyl radical,

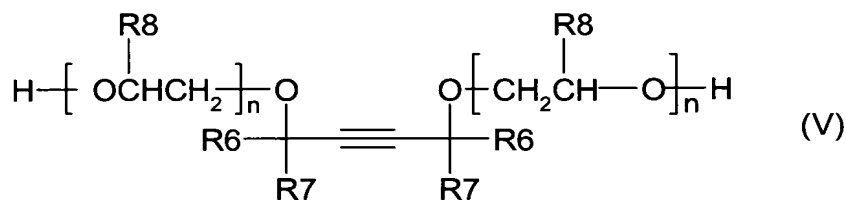
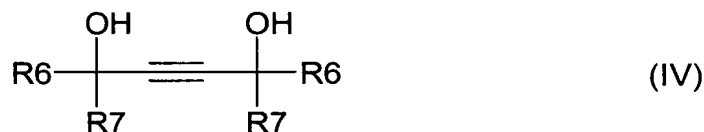
n is a number from 1 to 100,

X is CO-R⁵-COO⁻, SO₃⁻, SO₂⁻, PO₃²⁻ or PO₃M⁺,

R⁵ is a substituted or unsubstituted, branched or unbranched C₁-C₂₀-alkylene radical, a substituted or unsubstituted, branched or unbranched C₂-C₂₀-alkenylene radical, or a substituted or unsubstituted arylene radical, ~~the substituents preferably being 1, 2, 3 or 4 radicals from the group consisting of halogen, hydroxyl, C₁-C₄-alkoxy, nitro, cyano, carboxyl, amino and sulfo, and~~

M is H, a monovalent metal cation, a divalent metal cation, NH₄⁺, a secondary, tertiary or quaternary ammonium ion.

8. (Currently Amended) The pigment formulation according to ~~one or more of claims 1 to 7~~ claim 1, wherein said ~~the alkynediol (E) corresponds to~~ is a compound of the formula (IV) or (V) or a mixture thereof:



where

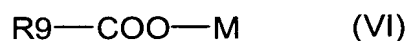
R⁶ is H or a branched or unbranched C₁-C₄-alkyl radical or a branched or unbranched C₂-C₄-alkenyl radical,

R⁷ is a branched or unbranched C₃-C₂₀-alkyl or C₃-C₂₀-cycloalkyl radical or a branched or unbranched C₃-C₂₀-alkenyl or C₃-C₂₀-cycloalkenyl radical,

R⁸ is H, a branched or unbranched C₁-C₂₀-alkyl or C₃-C₂₀-cycloalkyl radical or a branched or unbranched C₂-C₂₀-alkenyl or C₃-C₂₀-cycloalkenyl radical,

n is a number from 1 to 100.

9. (Currently Amended) The pigment formulation according to ~~one or more of claims 1 to 8~~ claim 1, wherein ~~said the~~ component (F) ~~corresponds to~~ is a compound of the formula (VI) or a mixture thereof:



where

R^9 is a branched or unbranched C_7-C_{29} -alkyl, ~~or a branched or unbranched C_7-C_{29} -alkenyl radical, a branched or unbranched C_7-C_{29} -alkdienyl radical,~~ or a branched or unbranched C_7-C_{29} -alkatrienyl radical, and

M is H, a monovalent metal cation, NH_4^+ , a secondary, tertiary or quaternary ammonium ion,

or a fat or oil selected from the group consisting of tallow, palm kernel fat, coco fat, rapeseed oil, sunflower oil, linseed oil, palm oil, soya oil, peanut oil and whale oil.

10. (Currently Amended) A process for producing a pigment formulation according to ~~one or more of claims 1 to 9, which comprises~~ claim 1, comprising the steps of incipiently pasting and homogenizing in water the said component (A) together with said components (B), (C), (D), (E), (F) and if appropriate optionally (G), (H), (I), (J) and (K) being incipiently pasted and homogenized in water (component L) to form a mixture and finely dispersed dispersing or finely dissipated dissipating the mixture with the aid of a grinding or dispersing assembly.

11. (Currently Amended) ~~The use of a pigment formulation according to one or more of claims 1 to 9 for pigmenting~~ A pigmented natural or synthetic material material pigmented with the pigment formulation according to claim 1.

12. (Currently Amended) ~~The use according to claim 11 for pigmenting~~ A pigmented natural and or synthetic fiber material material pigmented with the

pigment formulation according to claim 1, preferably cellulose fibers, especially for paper pulp coloration and laminate coloration.

13. (Currently Amended) ~~The use according to claim 11 for pigmentation~~ A pigmentation composition or pigmented article comprising a pigment formulation according to claim 1, wherein the pigmentation composition or pigmented article is in the form or production of waterborne printing inks, ink jet inks, electrophotographic toners, powder coatings, color filters, electronic inks, electronic paper and "electronic paper", painting and emulsion colors, emulsion paintings, solventborne printing inks, wallpaper colors, water-thinnable paintings, wood preservation systems, viscose dope dyeing, sausage casings, seed, fertilizers, glass bottles, and also for mass coloration of roof shingles, for coloring renders, woodstains, colored pencil leads, felttip pens, waxes, paraffins, graphics inks, ballpoint pen pastes, chalks, washing compositions, and cleaning compositions, shoe care agents, latex products, abrasives and also for coloring or colored plastics.

14. (New) The pigment formulation according to claim 6, wherein the substituents for R⁵ are 1, 2, 3 or 4 radicals selected from the group consisting of halogen, hydroxyl, C₁-C₄-alkoxy, nitro, cyano, carboxyl, amino and sulfo.

15. (New) The pigmented natural or synthetic fiber material according to claim 13, wherein the pigmented natural or synthetic fiber material is cellulose fibers.

16. (New) The pigmented natural or synthetic fiber material according to claim 15, wherein the cellulosic fibers are for paper pulp coloration or laminate coloration.